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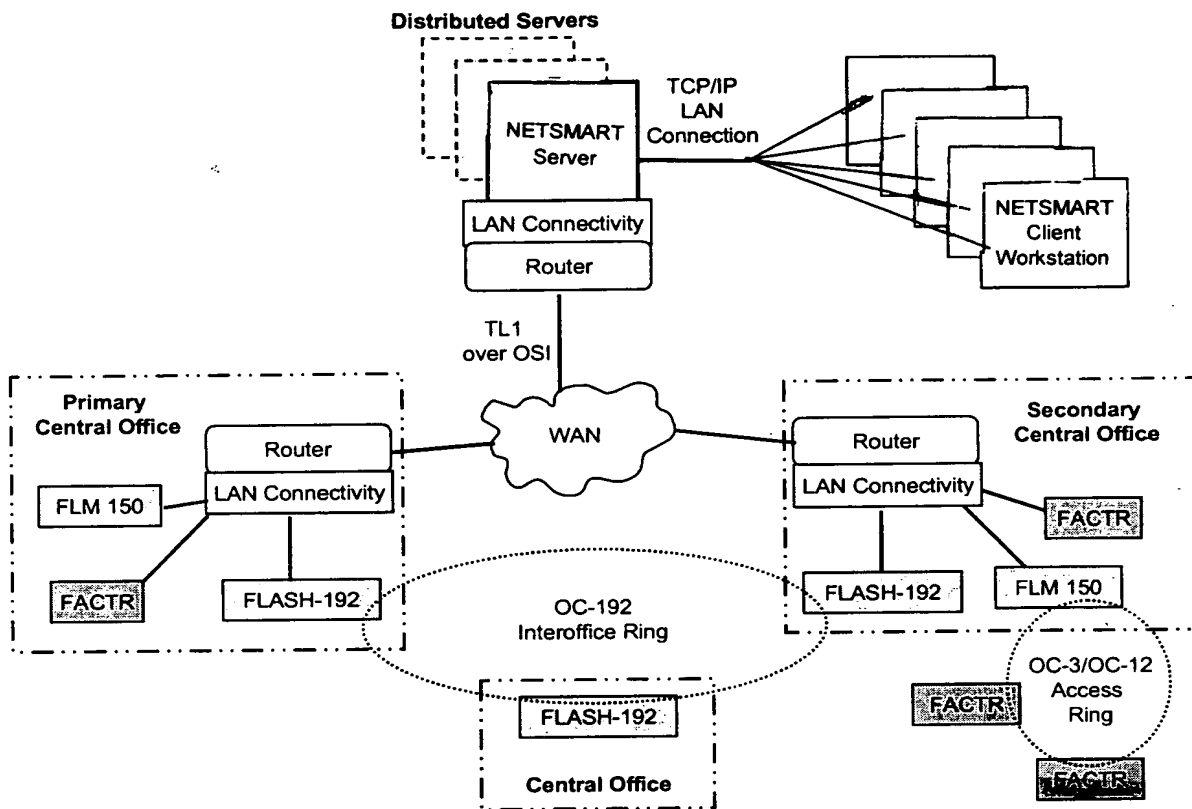


Figure 1

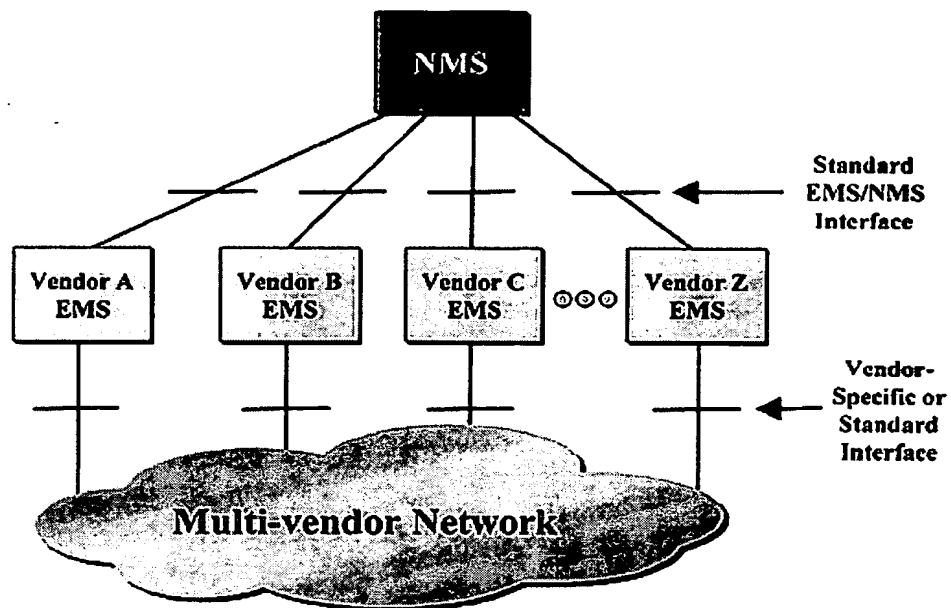


Figure 1A
Prior Art

005250-6T508560

0050519 05500
0050519 05500

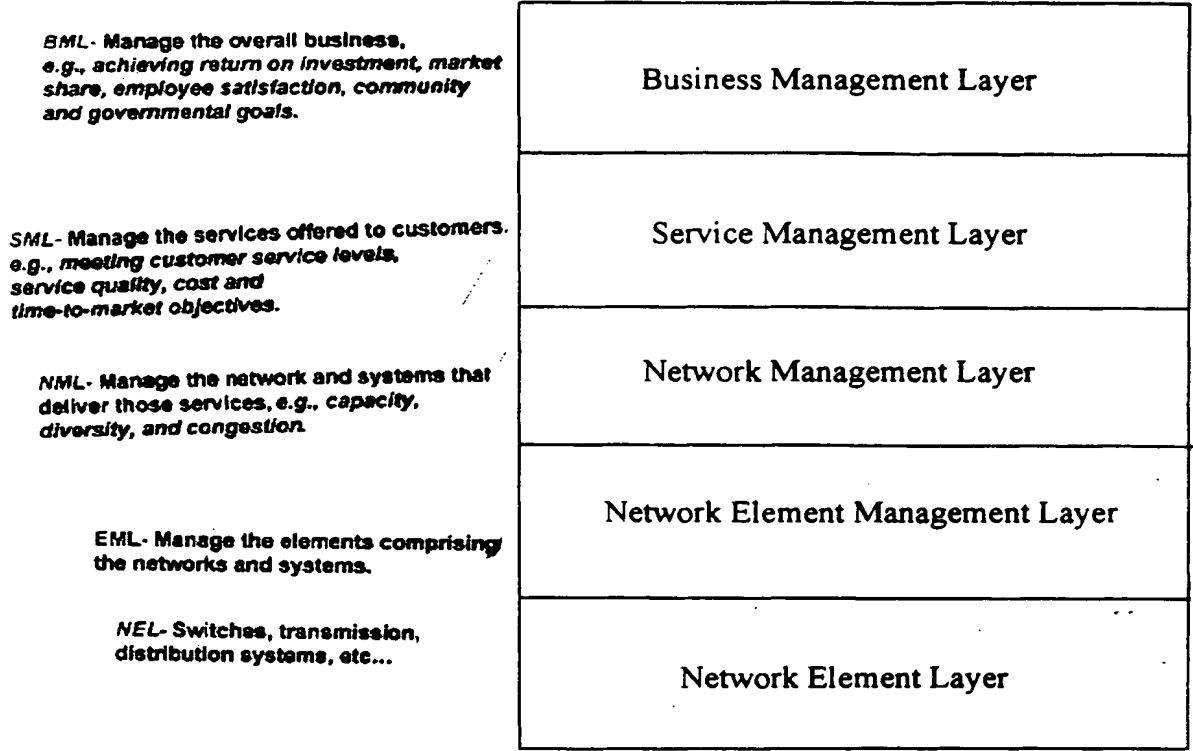


Figure 1B
Prior Art

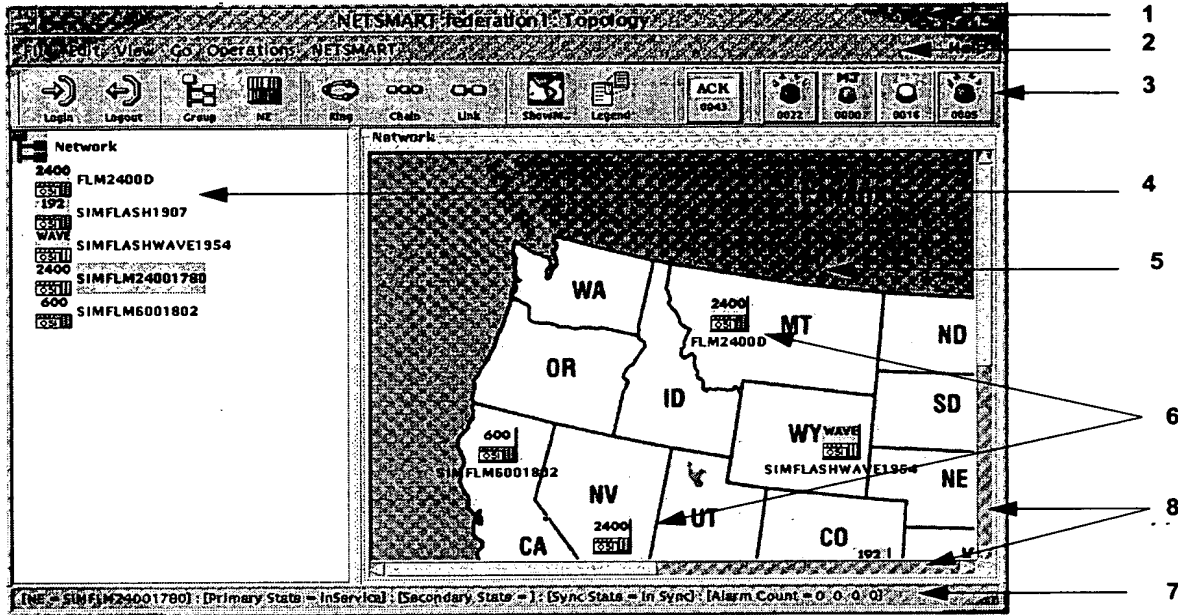


Figure 2

005250-07508500

Filter

Field	Test	Value	Logic
(none)	(none)	Text/Data Entry Field	AND
(none)	(none)		AND
Wavelength (nm)	(none)		AND
Frequency (THz)	(none)		AND
Transponder or 10G Port #	(none)		AND
AID	(none)		AND
Status	(none)		AND
OCN WLR (nm)	(none)		AND
OCN OPR (dBm)	(none)		AND
WCH OPT (dBm)	(none)		AND
WDM OPR (dBm)	(none)		AND
WDM OPT (dBm)	(none)		AND
(none)	(none)		AND
(none)	(none)		AND
(none)	(none)		AND

Drop-Down List

Ok Cancel Clear Help

Command Button

Figure 4

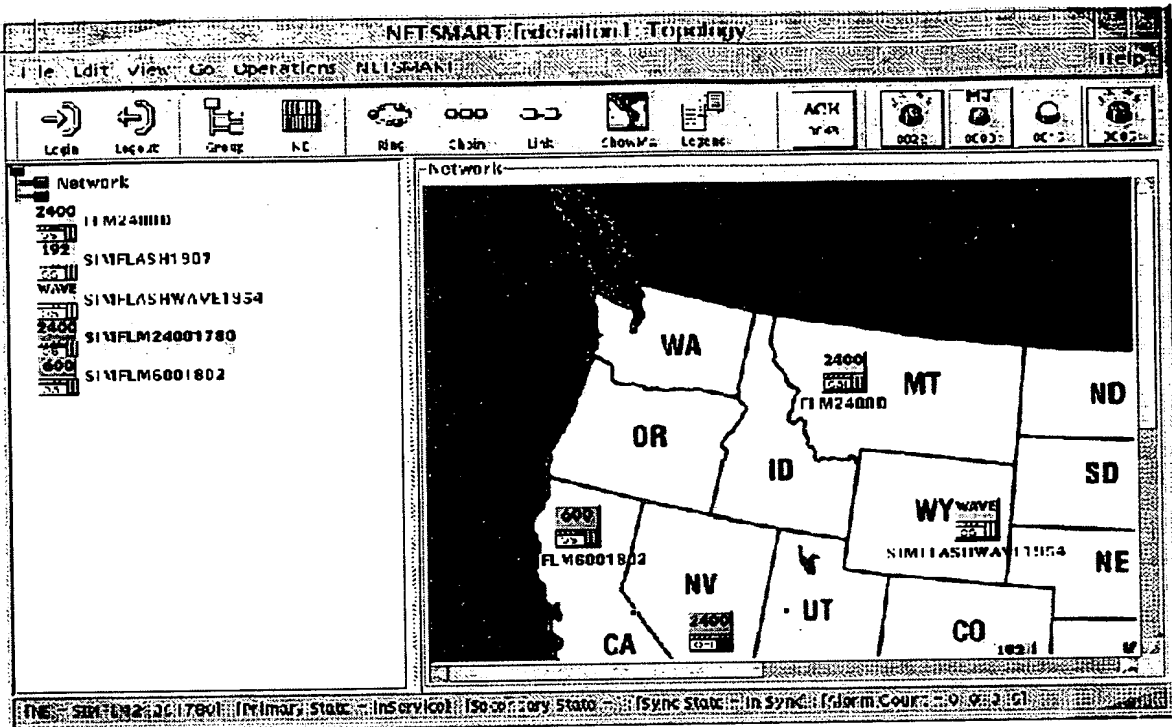


Figure 5

Search NE

Search

☐ Case sensitive

Starts with ▼

NE List

- FLM150-OSI1
- FLM150-OSI3
- FLM600-OSI1

Ok Cancel Help

Figure 6

005050-052500

Add Link

Group 1: NE1:

Group 2: NE2:

Linkable Termination Ports

SIMFLASHWAVE1951			SIMFLASHWAVE1957		
OCN	OS1-OCN-1	<div>Tx</div> <div>Rx</div>	<div>Rx</div> <div>Tx</div>	OS1-OCN-1	OCN
OCN	OS1-OCN-11	<div>Tx</div> <div>Rx</div>	<div>Rx</div> <div>Tx</div>	OS1-OCN-11	OCN
OCN	OS1-OCN-14	<div>Tx</div> <div>Rx</div>	<div>Rx</div> <div>Tx</div>	OS1-OCN-14	OCN
OCN	OS1-OCN-15	<div>Tx</div> <div>Rx</div>	<div>Rx</div> <div>Tx</div>	OS1-OCN-15	OCN
OCN	OS1-OCN-16	<div>Tx</div> <div>Rx</div>	<div>Rx</div> <div>Tx</div>	OS1-OCN-16	OCN
OCN	OS1-OCN-2	<div>Tx</div> <div>Rx</div>	<div>Rx</div> <div>Tx</div>	OS1-OCN-2	OCN

Undo:

Figure 7

[illegible]

Figure 8

005250-052500

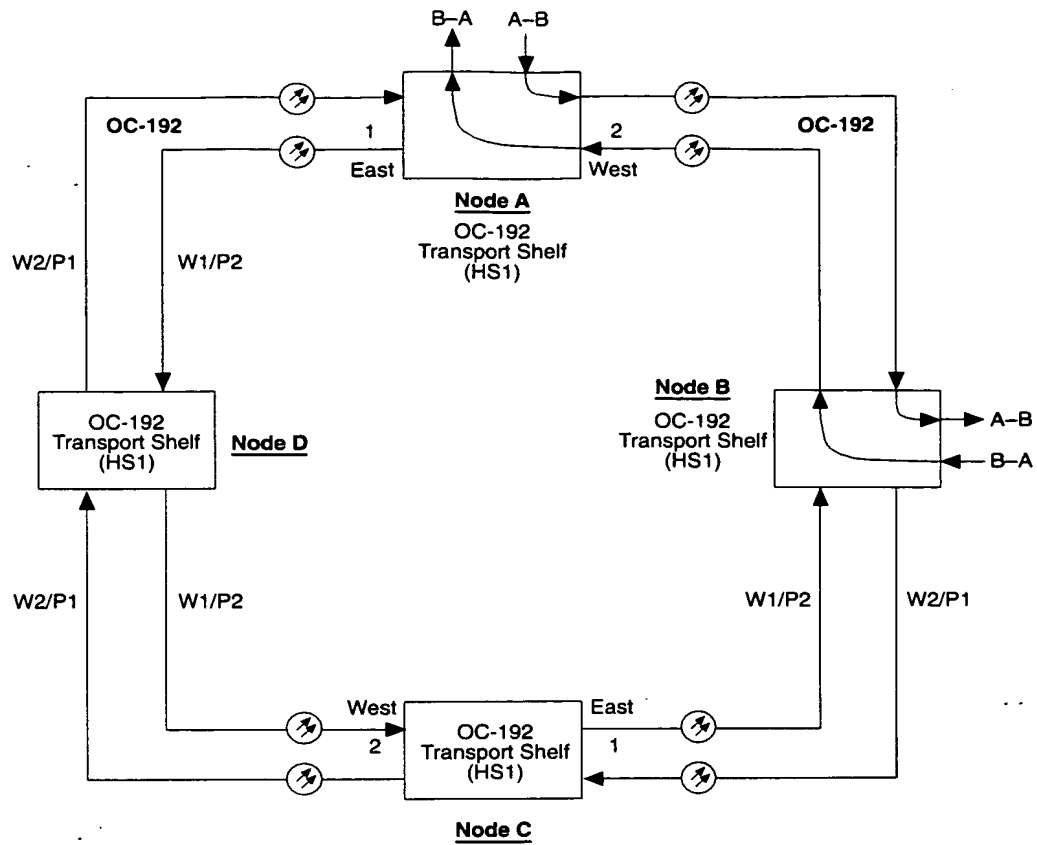


Figure 9

The image shows a computer screen with a software application titled "NETSMART: Federation of Congresses SINHLASHI 93". The interface includes a menu bar at the top with options: File, Edit, View, Data, Tools, Help, and About. Below the menu bar is a toolbar with icons for various functions. The main window is divided into two panes. The left pane shows a tree view with folders like "HIS1", "HIS2", and "HIS3". The right pane displays a large table with multiple columns and rows of data. The table has a header row with labels like "HIS1", "HIS2", "HIS3", etc. The data rows contain numerical values and some text. At the bottom of the screen, there is a status bar with labels like "System", "Equipment", "Group/Files", "SONET KC", "IP3", "IP2", "Cable", and "Alarm".

Figure 10

NETSWAN:slab2:Configuration:FLM600 OS

File Edit View NE: Surveillance Operations NE:SWARM

Reload Previous Up View Print

NE:MP6A

☒ Properties ☐ Alarms

General Information

Access Name (AID) = MP6A
Entity Type = MP6A-ADL

Name	Value
CLEI	SNPQA7B5AA
DOM	94.03
VENDOR ID	FC361EMFD1
VENDOR REV	01
Primary State	13
Secondary State	

Attributes

System Equipment Groups/Facilities SONET-XC EPO FFP Cocks Alarms

Amis:Ready Inservice Insync

Figure 11

[illegible]

Figure 12



Antiques 118 - All

[illegible]

Systemat. n. 12011 n. Accession Management NEJ Management

Figure 13

[illegible]

NISMAK! Federation Administration

File Edit View System Operations NISMAK! Help

Address List - All

ID	ID	PROTOCOL	ORIGINATOR	ADDRESS
1	SIM-FLM61892	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
2	SIM-FLM61894	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
3	SIM-FLM1507E37	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
4	SIM-FLM1507E32	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
5	SIM-FLM1507E14	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
6	SIM-FLM1507E12	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
7	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
8	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
9	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
10	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
11	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
12	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
13	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
14	SIM-FLASH1907	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f
15	SIM-FLM2-001724	OSI	TA-3P	39840f800c0000c00000008237e2370c0007e70f

System Administration Address Management HLU Management

Figure 14

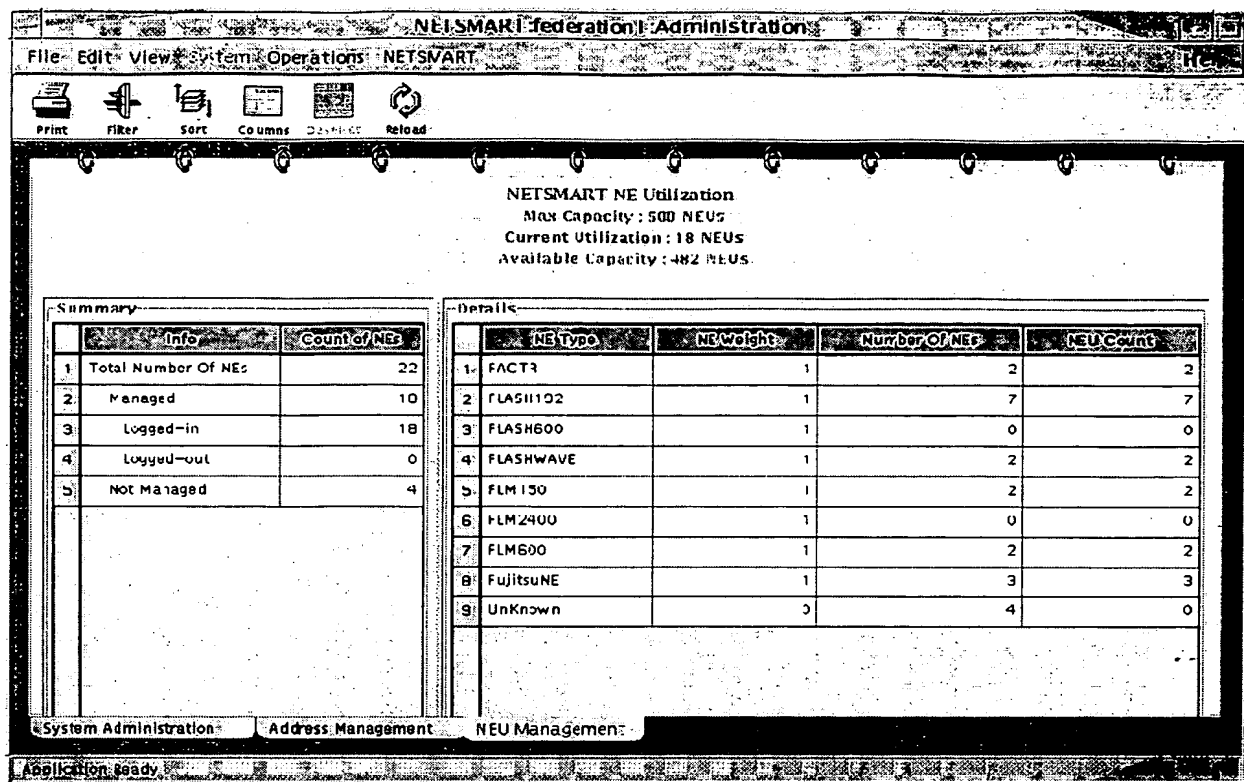


Figure 15

005051-0500

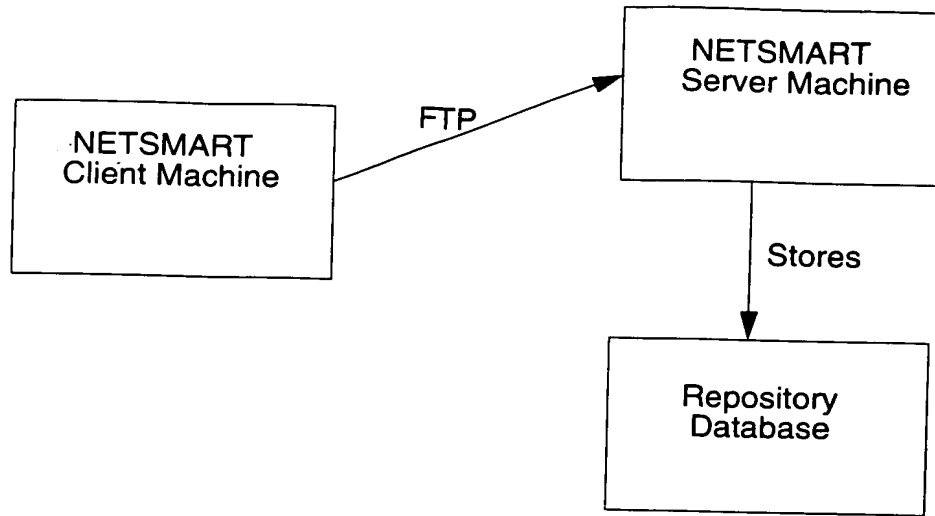


Figure 16

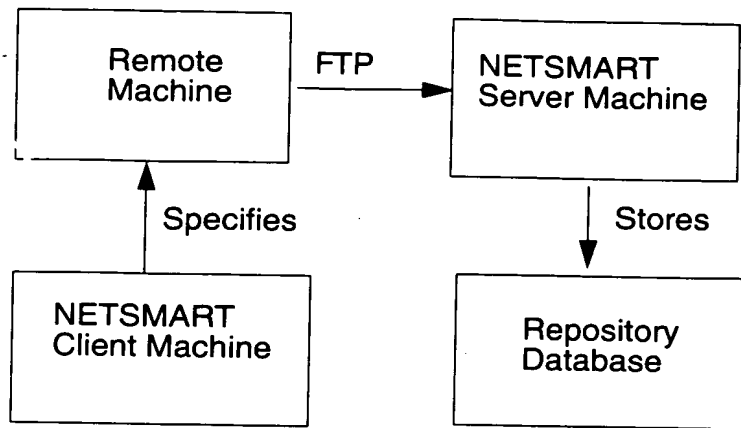


Figure 17

The screenshot shows the "NETSMART federation I Remote Memory Backup and Restore" window. The menu bar includes File, Edit, View, Operations, NETSMART, and Help. The toolbar contains icons for Backup, Restore, AbortBackup, AbortRestore, Activate, Cancel, Commit, Details, and Reload. Below the toolbar is a table with columns: VE Type, NE TID, Status, and Progress. The first row of the table shows "Up" as the VE Type, "100-100-100-100" as the NE TID, and "Idle" as the Status. The Progress column is empty. At the bottom of the window, a status bar displays "NETSMART federation I Remote Memory Backup and Restore ready".

VE Type	NE TID	Status	Progress
Up	100-100-100-100	Idle	

NETSMART federation I Remote Memory Backup and Restore ready

Figure 18

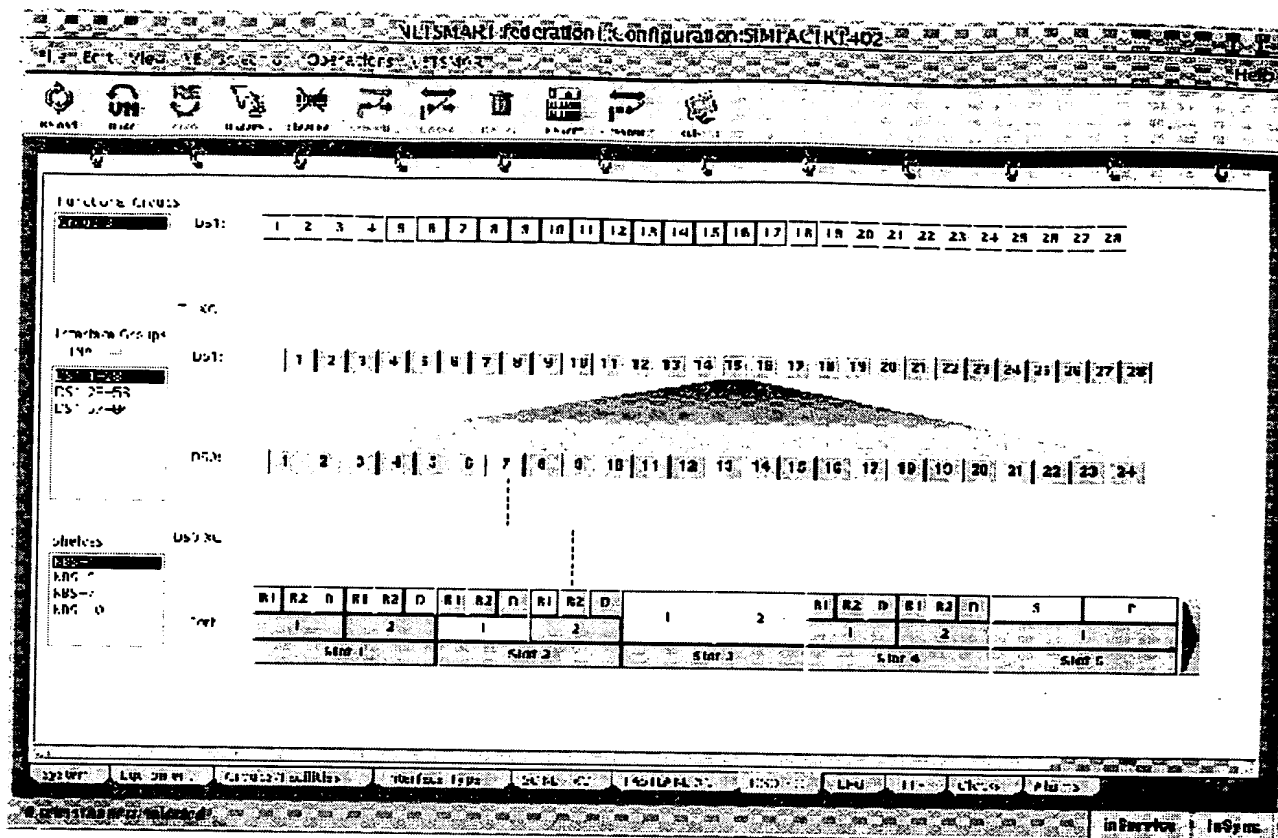


Figure 19

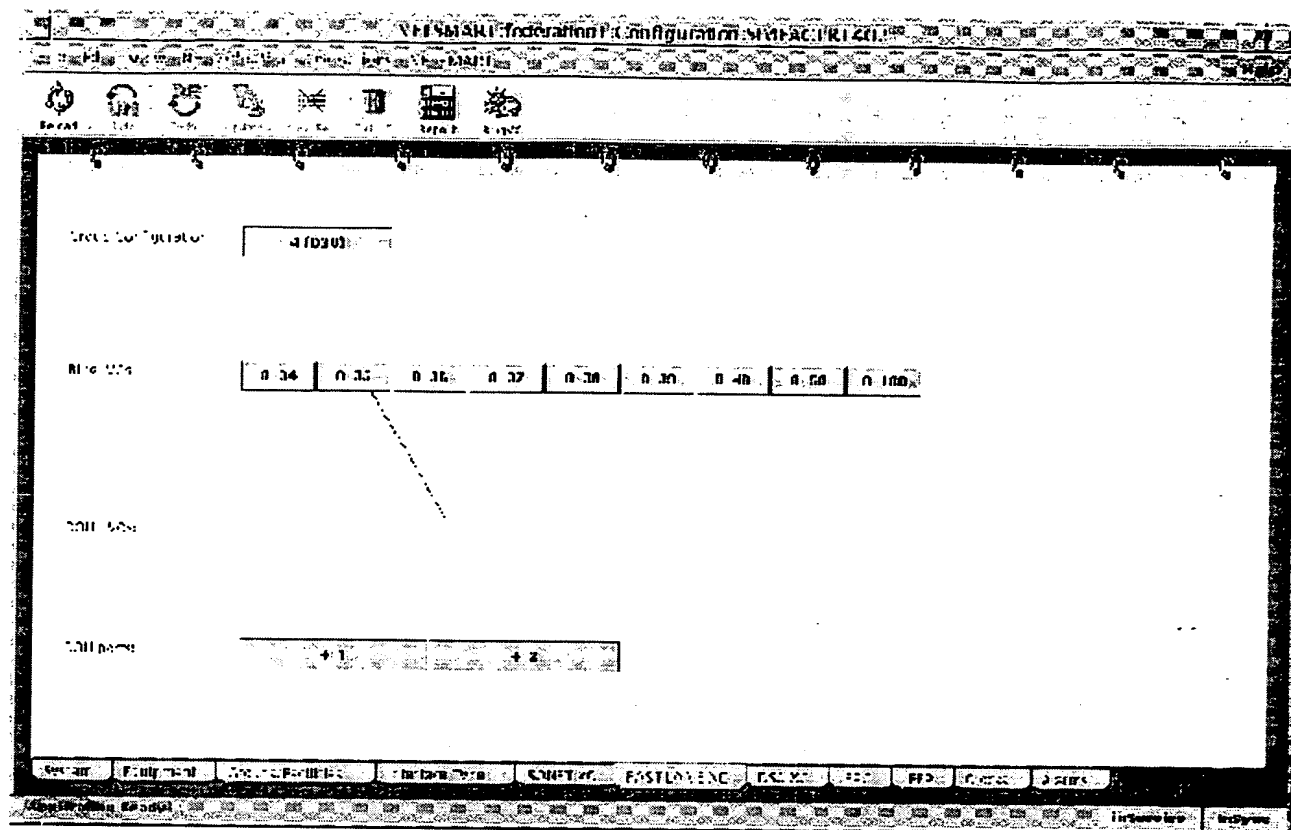


Figure 20

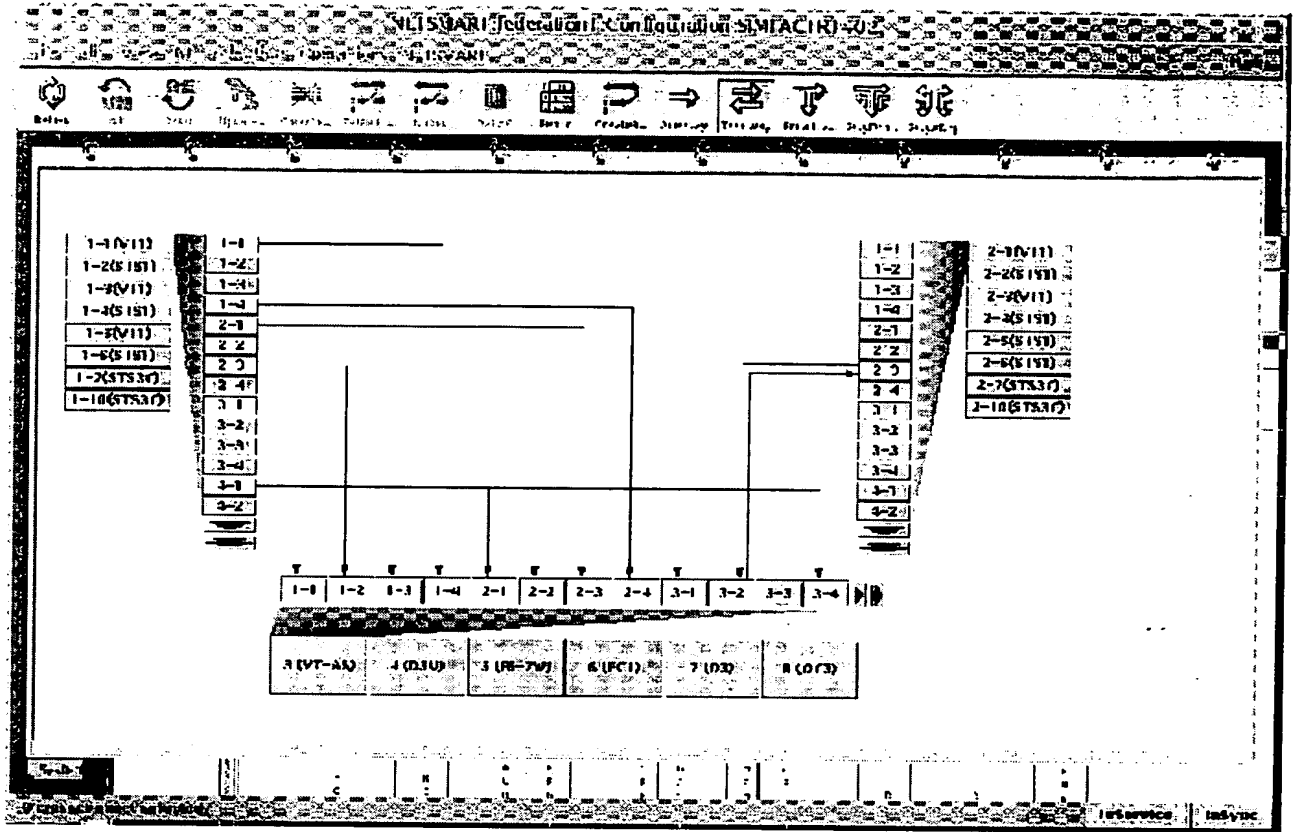


Figure 21

0050510-052500

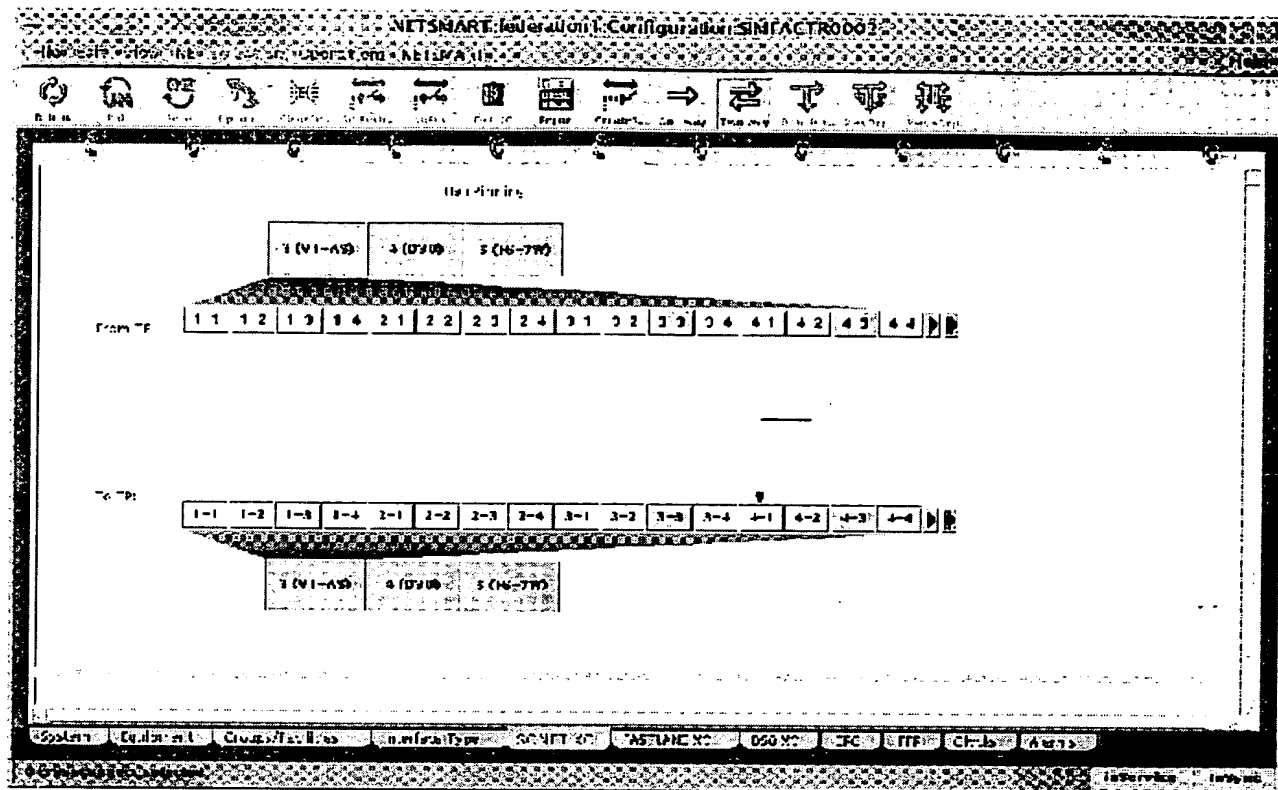


Figure 22

Figure 23

005250-01503500







Crossconnect Report							
<div><div>Print</div><div>Filter</div><div>Sort</div><div>Columns</div><div>Deselect</div><div>Reload</div></div>							
	From	To	Rate	Redline	Bridge	Crossconnect Name	Crossconnect Type
1	2-3-2-4	1-3-2-4	VT1	No			1WAY
2	1-3-1-1	2-3-1-1	VT1	No			1WAY
3	1-3-1-3	2-3-1-3	VT1	No			1WAY
4	1-3-2-4	2-3-2-4	VT1	No			1WAY
5	2-3-1-1	1-3-1-1	VT1	No			1WAY
6	2-3-1-3	1-3-1-3	VT1	No			1WAY
7	1-2	2-2	STS1	No			1WAY
8	2-2	1-2	STS1	No			1WAY
<div>Close Help</div>							

Figure 24

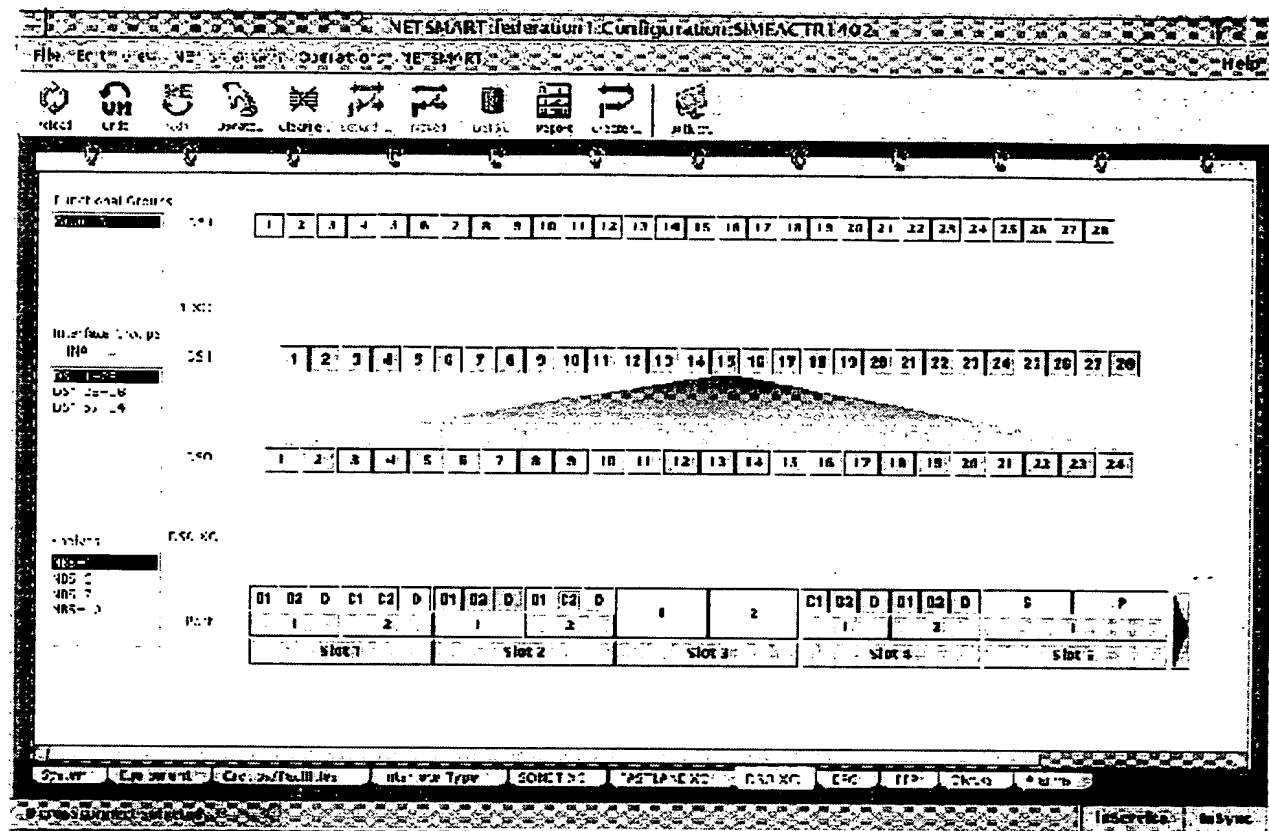


Figure 25

Close

Create

Delete

Reload

Managing Facilities

Rate: OCN Shelf: OS1

Existing Facilities	Non-existing Facilities
OS1-OCN-1	OS1-OCN-4
OS1-OCN-2	OS1-OCN-7
OS1-OCN-3	OS1-OCN-10
OS1-OCN-5	OS1-OCN-12
OS1-OCN-6	OS1-OCN-13
OS1-OCN-8	OS1-OCN-17
OS1-OCN-9	OS1-OCN-18
OS1-OCN-11	OS1-OCN-19
OS1-OCN-14	OS1-OCN-20
OS1-OCN-15	OS1-OCN-21
OS1-OCN-16	OS1-OCN-22

Access Name (AID) - OS1-OCN-1

Entity Type - OCN

Name	Value
OPTADJ	+0.0
RATE	10G
primaryState	IS-NR
secondaryState	

Attributes

Figure 26

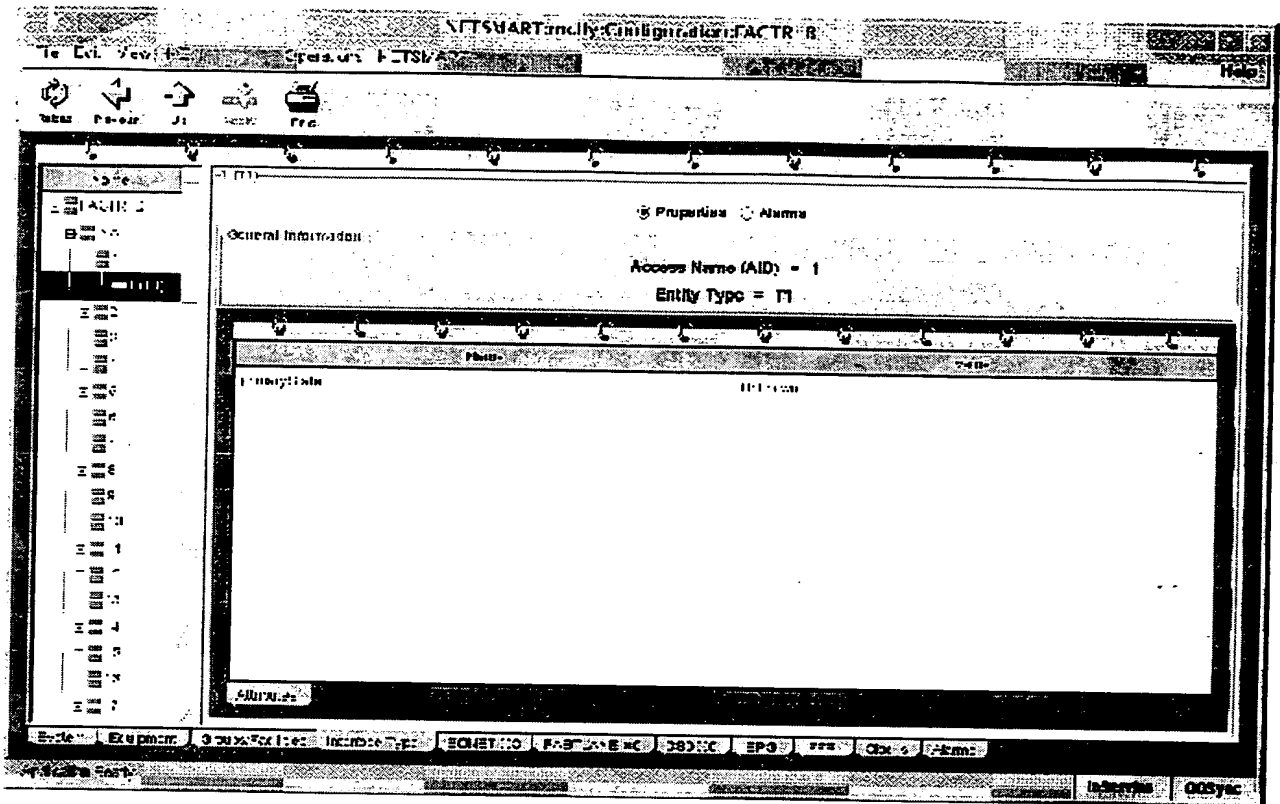


Figure 27

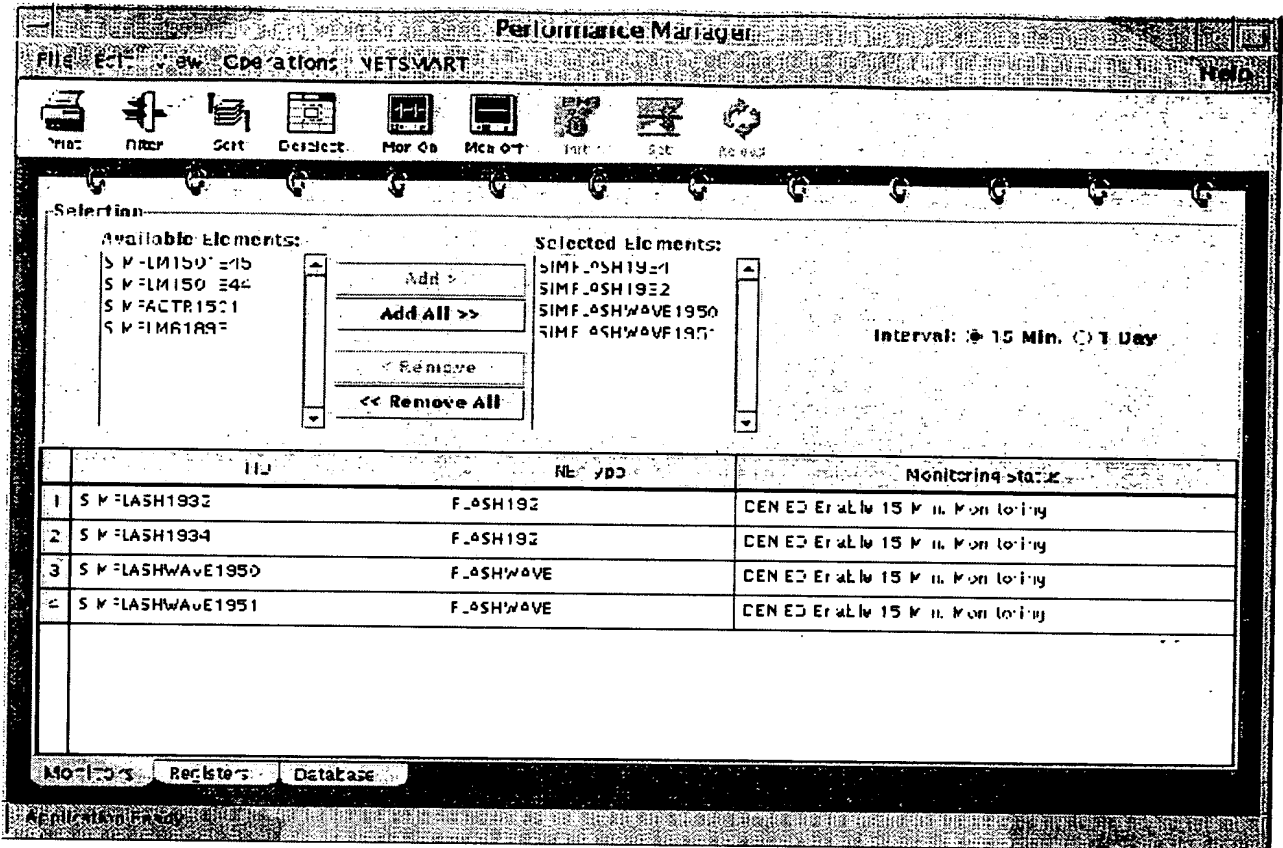


Figure 28

005250-67503500

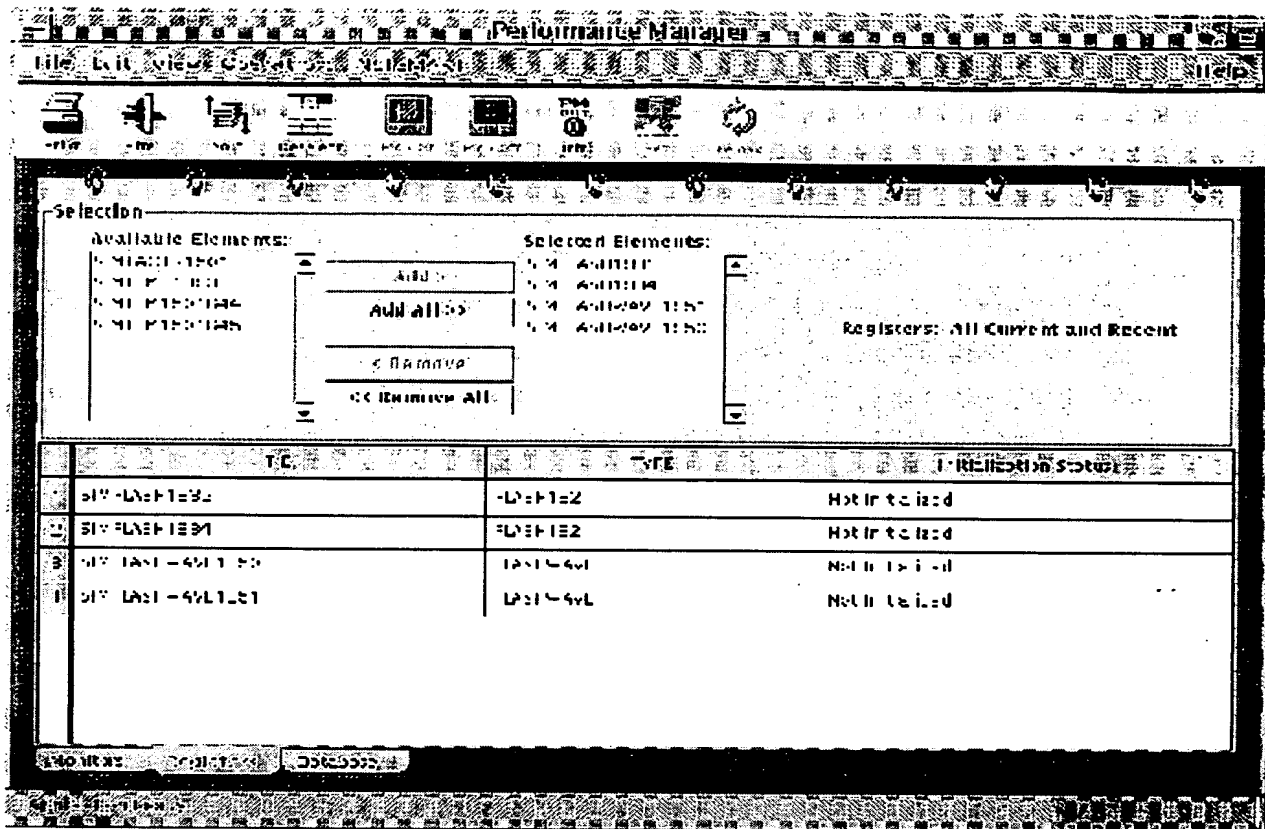


Figure 29

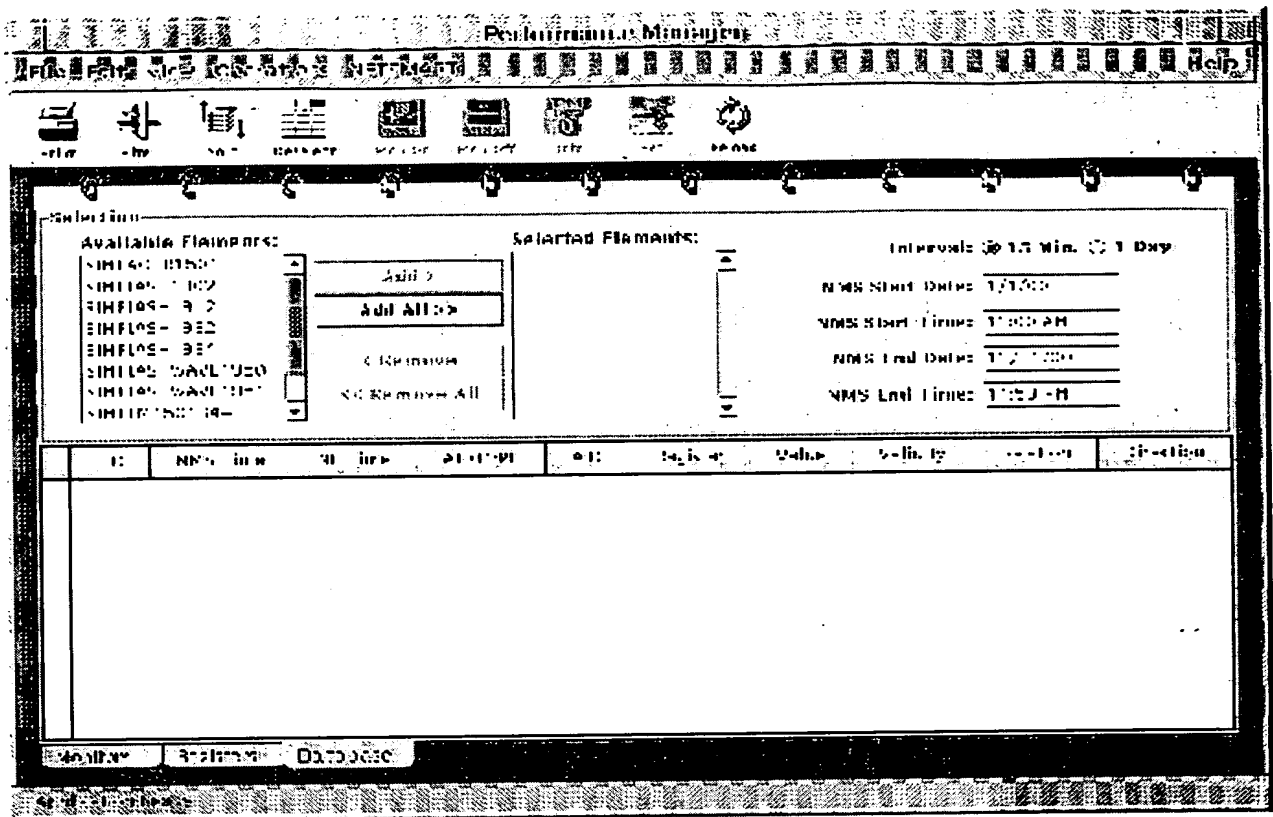












Figure 30

00580519-059500

HS1-HT2H-2



HS1 HT2H 2

Selection

Available Equipment:

Add

Add All

Remove

Remove All

Selected Equipment:

self=HS1:lo.+2H-2

	NYS inv	NE Time	A DTYPE	AID	Register	Value	Range	Threshold
1	Fri Feb 11 14:58:35 EST 2000	Fri Feb 11 14:58:03 PST 2000	EQF	HS1-HT2H-2	IRCN	1.0	1.2-1.8	1.7
2	Fri Feb 11 14:58:35 EST 2000	Fri Feb 11 14:58:03 PST 2000	EQF	HS1-HT2H-2	IPTN	1.0	0.2-0.8	0.5

Monitors

Registers

Database

Figure 31

HSI-2 (OC192)

Close
Print
Save
Export
Import
Help
Refresh
Settings

HSI-2 (OC192)

Selection

Available Facilities:

Selected Facilities:

Location: ☒ NEAD ☐ FEND ☐ NEND&FEND

Direction: ☒ Reprieve ☐ NA

Interval: ☒ 15 Min. ☐ 1 Day

Start Index:

End Index:

Add

Add All

Remove

Remove All

NMS Time	NE Time	AIDTYPE	AID	Register	Value	Range	Threshold	Default Threshold	Validity	Location	Direction

Navigation
Registers
Parameters

Figure 32

00580510:052500







Crossconnect Report							
<div><div>Print</div><div>Filter</div><div>Sort</div><div>Columns</div><div>Deselect</div><div>Reload</div></div>							
	From	To	Rate	Redline	Bridge	Crossconnect Name	Crossconnect Type
1	2-3-2-4	1-3-2-4	VT1	No			1WAY
2	1-3-1-1	2-3-1-1	VT1	No			1WAY
3	1-3-1-3	2-3-1-3	VT1	No			1WAY
4	1-3-2-4	2-3-2-4	VT1	No			1WAY
5	2-3-1-1	1-3-1-1	VT1	No			1WAY
6	2-3-1-3	1-3-1-3	VT1	No			1WAY
7	1-2	2-2	STS1	No			1WAY
8	2-2	1-2	STS1	No			1WAY
<div><div>Close</div><div>Help</div></div>							

Figure 33

005250-6T503560

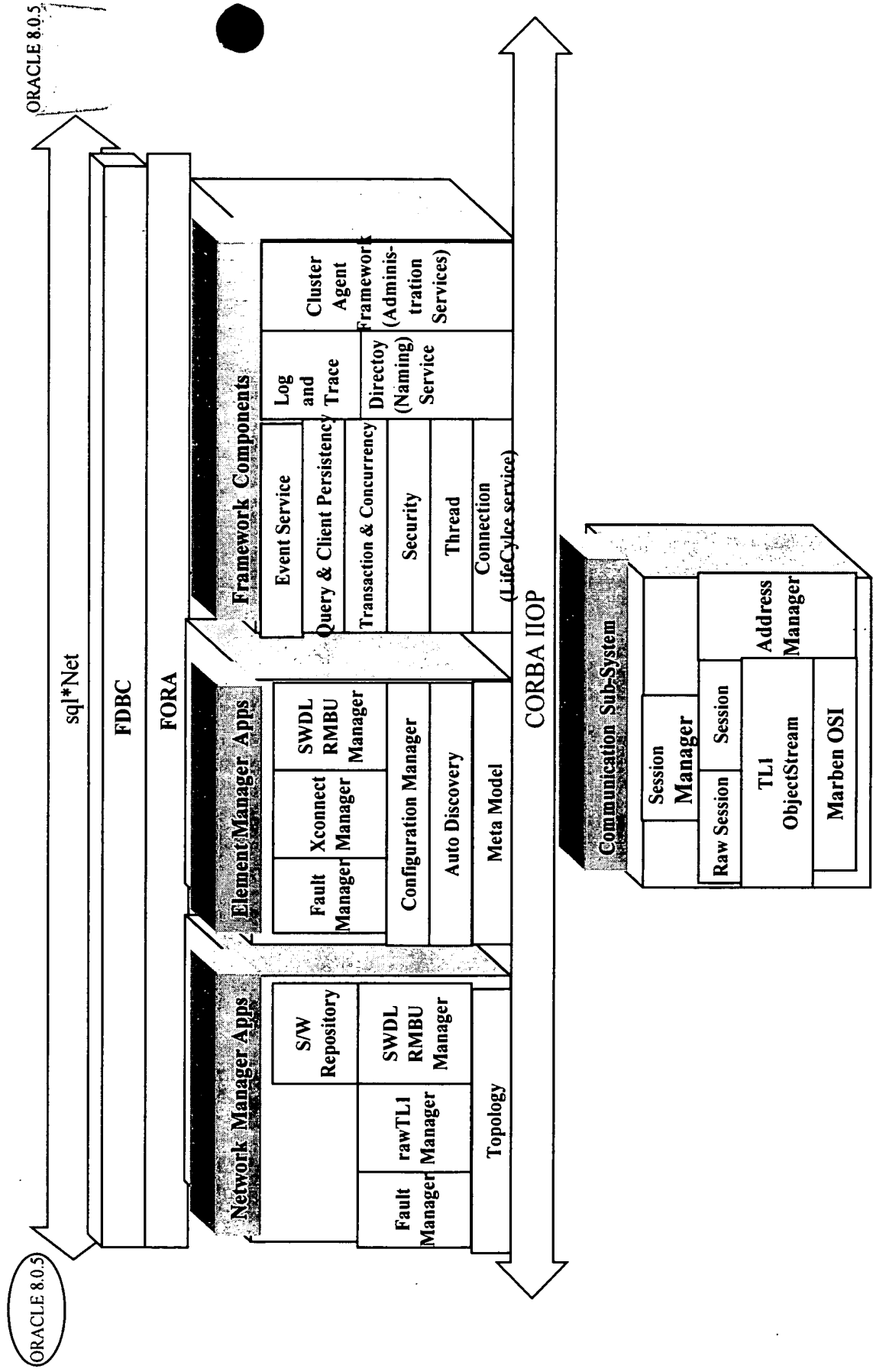


Figure 34

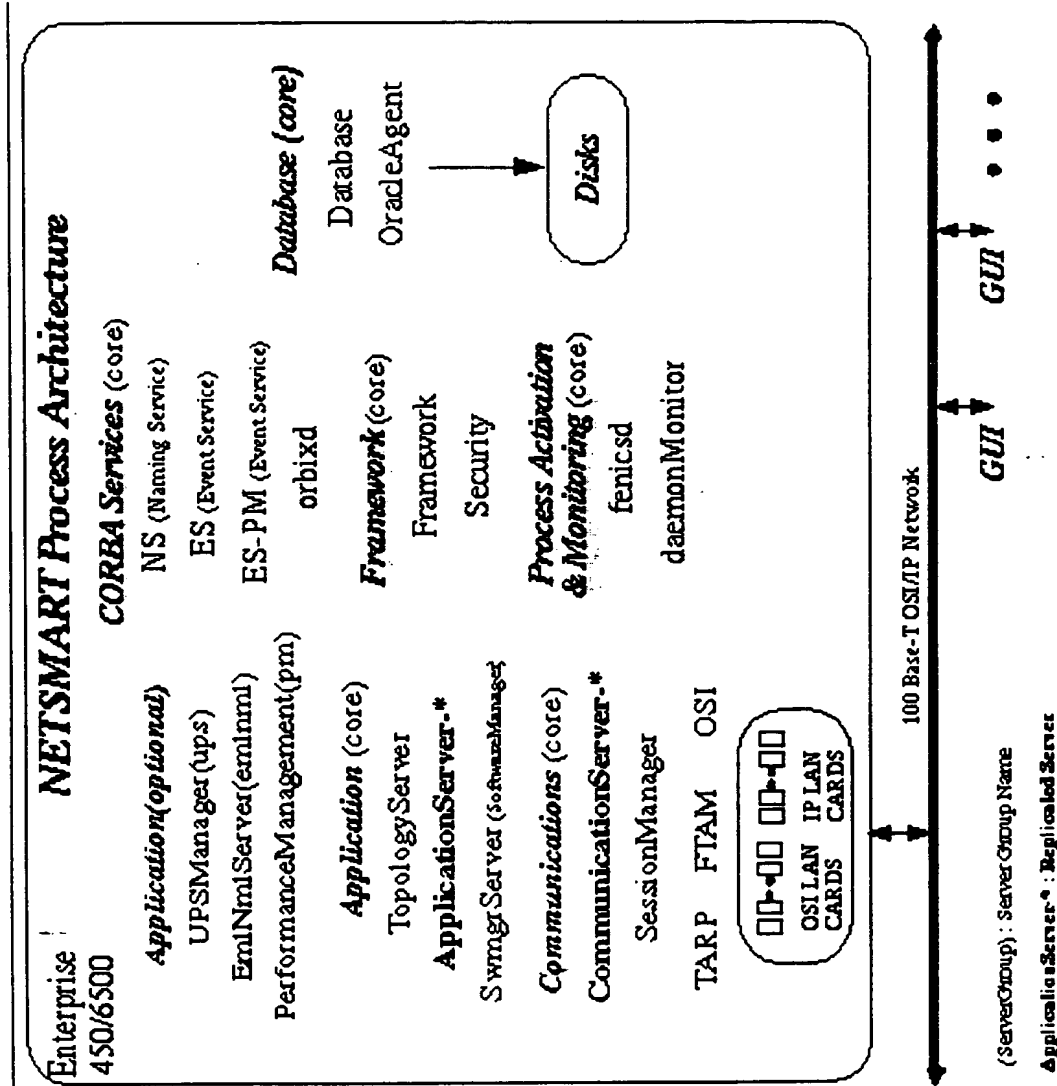


Figure 35

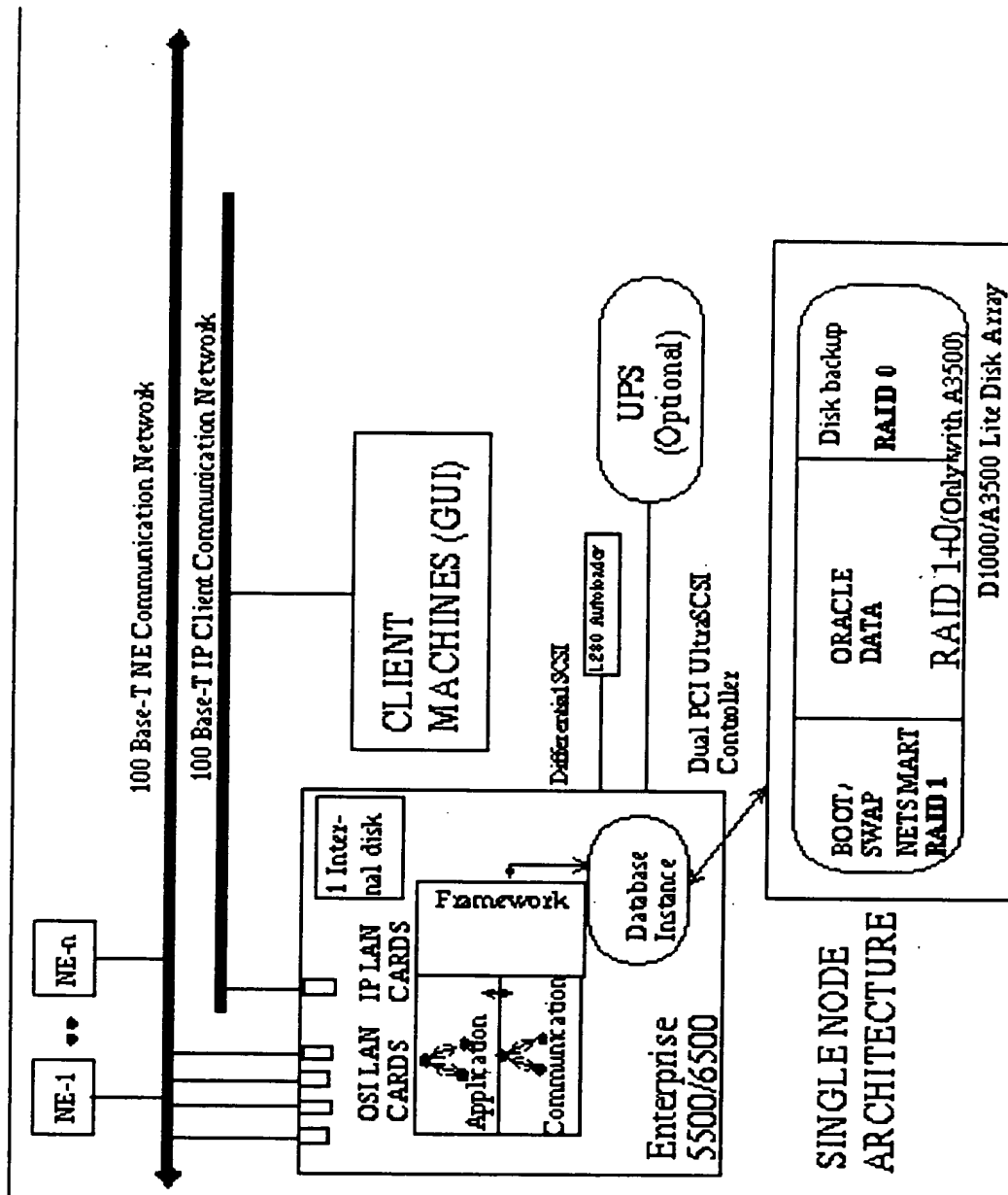


Figure 36

NETSMART Server Architecture

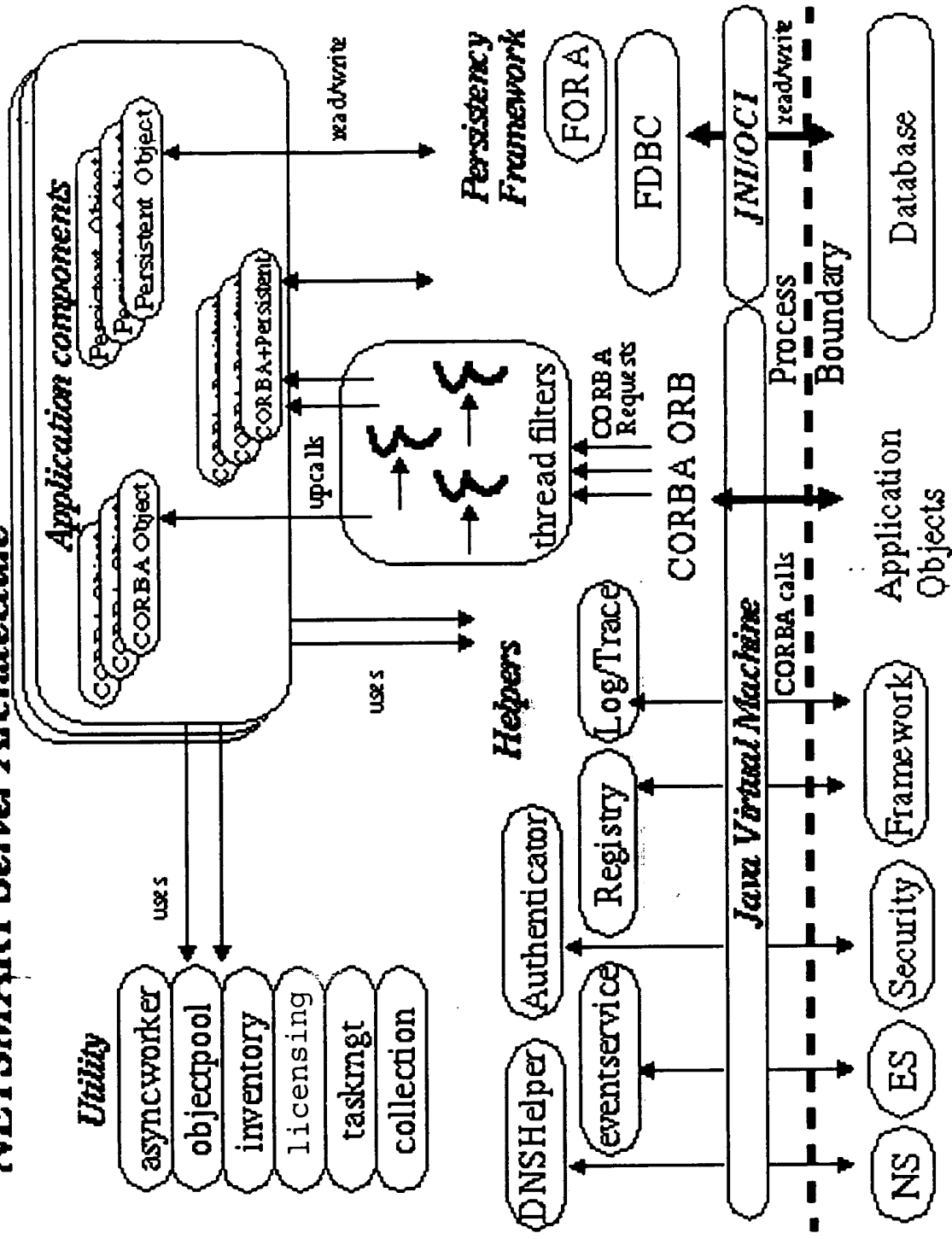


Figure 37

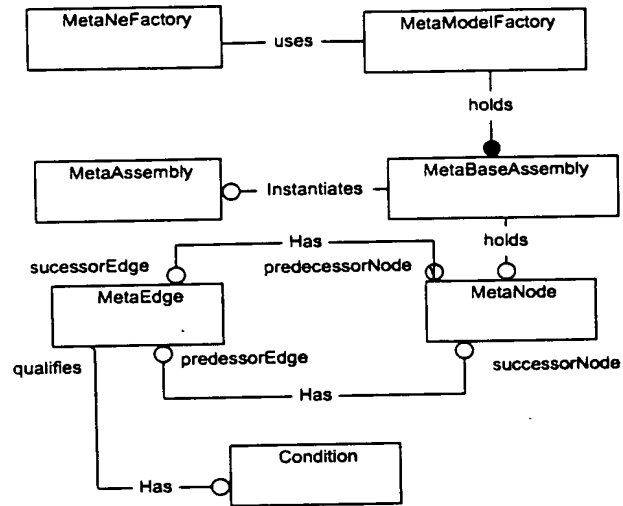


Figure 38

Figure 39

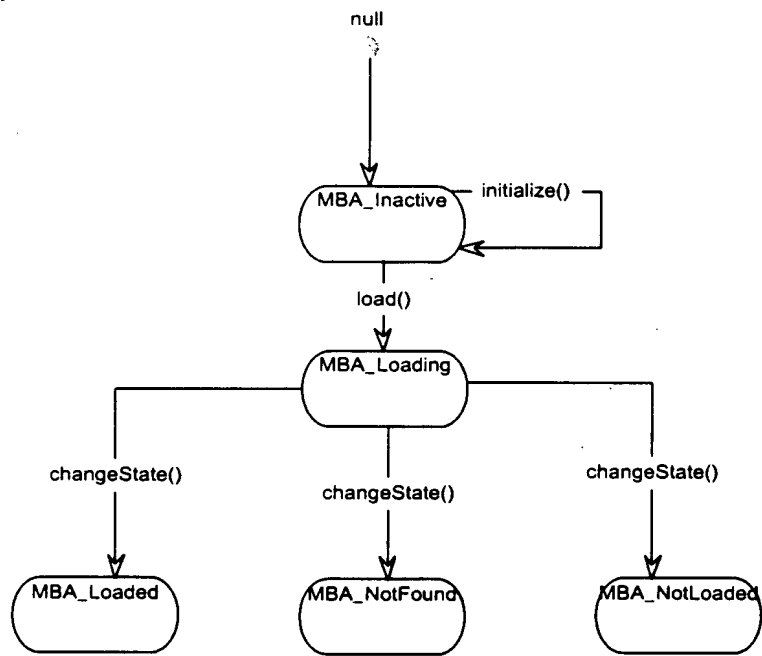


Figure 40

000000 000000 000000

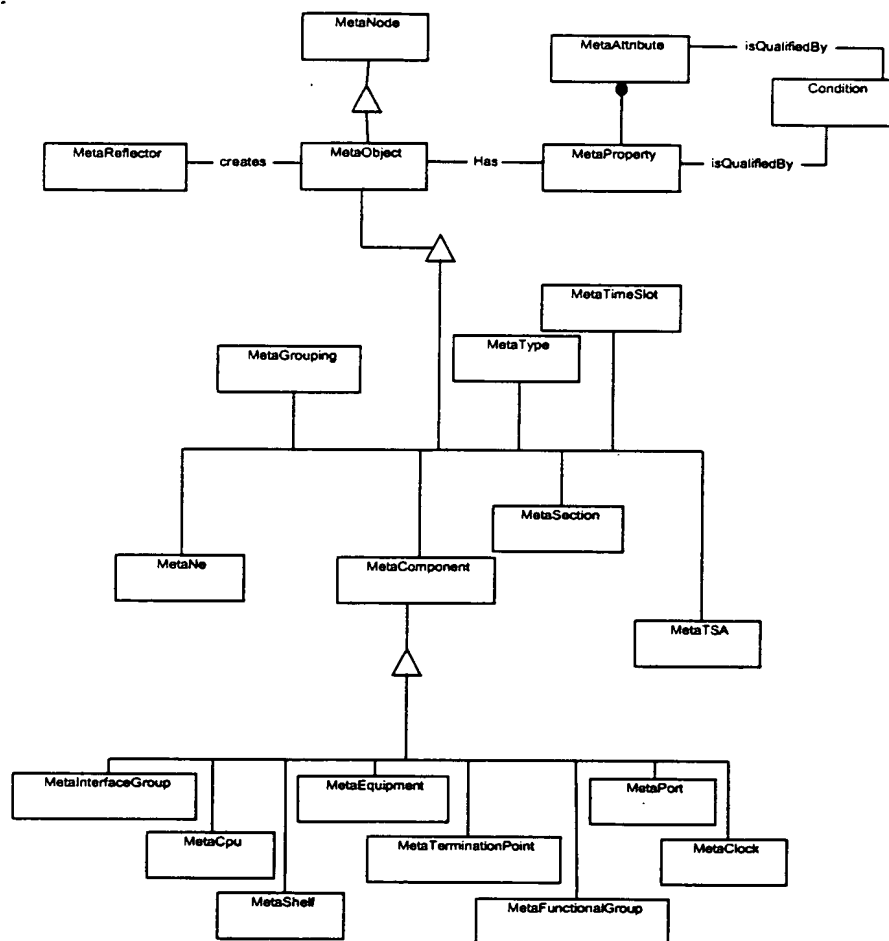


Figure 41

00550: 67506560

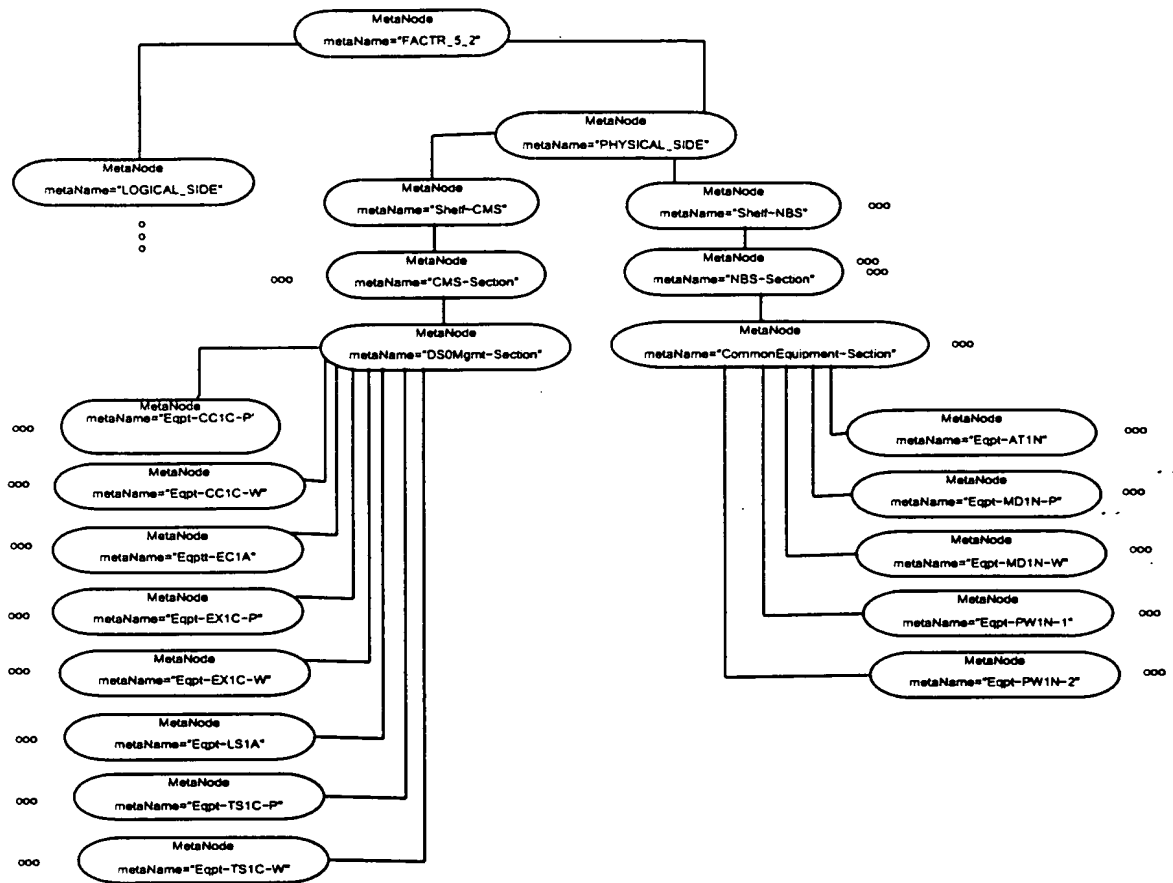


Figure 42